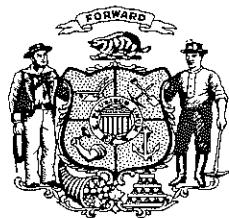


# STATE OF WISCONSIN

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## JOINT COMMITTEE ON FINANCE

### MEMORANDUM

To: Members  
Joint Committee on Finance

From: Senator Mark Miller  
Representative Mark Pocan

Date: July 8, 2010

Re: Department of Veterans Affairs Energy Cost Reduction Plan

Attached is a plan on energy cost reduction from the Department of Veterans Affairs, pursuant to s. 16.953, Stats.

This report is being provided for your information only. No action by the Committee is required. Please feel free to contact us if you have any questions.

Attachments

MM:MP;jm

## **Wisconsin Department of Veterans Affairs**

### **Energy Cost Reduction Plan 2010**

#### **Veterans Home King**

The Wisconsin Veterans Home campus at King is home to more than 700 veterans and their eligible dependents. The campus consists of numerous buildings ranging in age from 2 to 120 years.

There are two energy cost reduction projects currently underway at King - Olson Hall (ca.1966) Window Replacement and the New 800 ton Chiller and Cooling Tower Installation.

As a result of a Focus on Energy audit in 2007, several large and small energy cost reduction projects were completed. The laundry renovation, which included the replacement of steam dryers and ironers with gas-fired units, was the most significant.

Future projects are listed on the Energy Cost Reduction Worksheet.

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BY: J. Finance

## ENERGY COST REDUCTION PLAN

**Agency: WISCONSIN DEPARTMENT OF VETERANS AFFAIRS**

**Institution: VETERANS HOME - KING**

**Time Period: July 1, 2010 to June 30, 2012**

<u>Executive Order 145, Article 1 Goals:</u>	Reduce BTU/GSF from FY 2005 10% by beginning of FY 2008 20% by beginning of FY 2010
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### **Anticipated Methods of Funding Energy Conservation & Renewable Energy Opportunities:**

Funding Source	EE or RE Measure	Cost of Project	Energy Savings BTU/YR	Energy Cost Reduction
WS15 SP Energy Conservation Fund				
Performance Contracting-Agency				
Agency Funds Including Federal Grants	<u>Project #1</u> New Chiller and Tower  <u>Project #2</u> King Water Heating and Softening Upgrades  <u>Project #3</u> HVAC Controls and Ventilation Upgrades	\$618,410  \$800,000  \$400,000	TBD  TBD  TBD	TBD  TBD  TBD
Focus on Energy Incentives & Agency Funds, and ARRA Funding	<u>Project #1</u> New Chiller and Tower  <u>Project #2</u> King Water Heating and Softening Upgrades  <u>Project #3</u> HVAC Controls and Ventilation Upgrades	\$24,000  TBD  TBD		
Utility Programs	<u>Project #1</u> Chiller and Tower  <u>Project #2</u> King Water Heating and Softening Upgrades  <u>Project #3</u> HVAC Controls and Ventilation Upgrades	\$282,990  \$400,000  \$200,000		
Equipment Lease or Lease Purchase				
Gifts & Grants				
Total		\$2,725,400	TBD	TBD



State of Wisconsin  
Energy Cost Reduction Plan - Energy Conservation Opportunities (ECO's) 2010

Agency: Wisconsin Department of Veterans Affairs		Institution: Veterans Home - KING		BUILDING INFORMATION		BUILDING AUTOMATION SYSTEMS AND TEMPERATURE CONTROLS		LIGHTING AND ELECTRICAL		FIXED EQUIPMENT		MOVABLE EQUIPMENT		ENERGY		EDUCATION PROGRAMS		
Building No	Skilled Nursing Facilities	Building Name																
AH-422	MacArthur Hall	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
SH-600	Olsen Hall	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
SH-700	Stonelock Hall	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
AH-800	Ansonworth Hall	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Support Buildings		Central Services		P	P	P	P	P	P	P	P	C	C	C	C	C	C	
400	Safety	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
300	Burns Clemens	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
301	Maurien	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
314	Chapel	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
403	Greenhouse	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
406	Power Plant	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
504	Maintenance	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
603	Water Treatment Plant	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Nursing				P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cottage District				P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 101		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 104		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 116		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 217		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 218		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 110		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 111		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 116		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 20		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 211		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 122		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 222		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 223		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 412		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
Cott. 414		P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	C	
		4	5	7	4	4	0	7	0	7	7	0	12	14	14	4	10	10
		113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
		76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76

## **Wisconsin Department of Veterans Affairs**

### **Energy Cost Reduction Plan 2010**

#### **Veterans Home - Union Grove**

In 2005 the Veterans Home - Union Grove was included in the Southern Wisconsin Center, Department of Health and Family Services energy report.

At that time the Veterans Home consisted 3 assisted living facilities housing geriatric veterans and eligible dependents - Shemanske and Fairchild Halls (ca. 1967) and Gates Halls (new construction completed in 2004). Boland Hall, a newly constructed, energy efficient skilled nursing facility for medically compromised geriatric individuals was completed in 2007. Maurer Hall (ca. 1972) was remodeled and opened in 2006 as a non-residential building which is utilized by all members of the Union Grove Campus.

In 2008, new energy efficient windows were installed replacing the original 40 year old windows in Shemanske and Fairchild Halls. It is anticipated that the new windows will provide significant improvement in comfort and cost savings. This project also included the installation of improved ceiling systems and energy efficient light fixtures. Further improvements to Fairchild, Shemanske and Maurer Halls scheduled to take place in 2010/2011 are listed on the Energy Cost Reduction Plan included as part of this report.

The WVH-Union Grove is a residential environment consisting of assisted living and skilled nursing buildings which are required to maintain temperatures that are comfortable and acceptable to our geriatric members. This results in each building being maintained at a constant temperature of 72 -74 degrees year round.

## ENERGY COST REDUCTION PLAN

**Agency: WISCONSIN DEPARTMENT OF VETERANS AFFAIRS**

**Institution: VETERANS HOME - UNION GROVE**

**Time Period:** July 1, 2010 to June 30, 2012

**Executive Order 145, Article 1 Goals:** Reduce BTU/GSF from FY 2005  
 10% by beginning of FY 2008  
 20% by beginning of FY 2010

### Anticipated Methods of Funding Energy Conservation & Renewable Energy Opportunities:

Funding Source	EE or RE Measure	Cost of Project	Energy Savings BTU/YR	Energy Cost Reduction
WS15 SP Energy Conservation Fund				
Performance Contracting-Agency				
Agency Funds Including Federal Grants	<u>Project # 1</u> Fairchild/Shemanske Halls HVAC upgrades  <u>Project # 2</u> Fairchild/Shemanske Halls (lighting, ceilings, flooring) and Maurer Hall new windows	\$819,650  \$741,000	TBD  TBD	TBD  TBD
Focus on Energy Incentives	<u>Project # 1</u> Fairchild/Shemanske Halls HVAC upgrades  <u>Project # 2</u> Fairchild/Shemanske Halls (lighting, ceilings, flooring) and Maurer Hall new windows	TBD	TBD	TBD
Utility Programs	<u>Project # 1</u> Fairchild/Shemanske Halls HVAC upgrades  <u>Project # 2</u> Fairchild/Shemanske Halls (lighting, ceilings, flooring) and Maurer Hall new windows	\$441,350  \$399,000		
Equipment Lease or Lease Purchase				
Gifts & Grants				
Total		\$2,401,000	TBD	TBD

State of Wisconsin  
Energy Cost Reduction Plan - Energy Conservation Opportunities (ECO's) 2010

Agency: Wisconsin Department of Veterans Affairs  
Institution: Wisconsin Veterans Home - Union Grove

BUILDING INFORMATION		BUILDING ENVELOPE		PLUMBING		HEATING, VENTILATING, AND AIR CONDITIONING	
Building No.	Building Name						
111AV	Shemanske Hall						
130AV	Falchid Hall	C	C	C	C	C	C
1111AV	Gates Hall	C	C	C	C	C	C
1119AV	Walter Hall	P	C	C	C	C	C
1115AV	Boland Hall						
		5	5	5	5	5	5
		35	35	23			

Agency: Wisconsin Department of Veterans Affairs  
Institution: Wisconsin Veterans Home - Union Grove

BUILDING INFORMATION		BUILDING AUTOMATION SYSTEMS AND TEMPERATURE CONTROLS		LIGHTING AND ELECTRICAL		EDUCATIONAL PROGRAMS	
BUILDING INFORMATION		BUILDING AUTOMATION SYSTEMS AND TEMPERATURE CONTROLS		LIGHTING AND ELECTRICAL		EDUCATIONAL PROGRAMS	
Building No.	Building Name						
1113AV	Shemanske Hall						
130AV	Falchid Hall	C	C	C	C	C	C
1111AV	Gates Hall	C	C	C	C	C	C
1119AV	Walter Hall	P	C	C	C	C	C
1115AV	Boland Hall						
		5	5	5	5	5	5
		35	35	23			

**Wisconsin Department of Veterans Affairs**

**Energy Cost Reduction Plan 2010**

**Wisconsin Veterans Cemeteries**

**Northern Wisconsin Veterans Memorial Cemetery**

Construction of the energy efficient administration and maintenance buildings began April of 2000.

**Southern Wisconsin Veterans Memorial Cemetery**

Construction of the energy efficient administration building began in 1998. The maintenance and unheated storage buildings were constructed in 2002.

## ENERGY COST REDUCTION PLAN

**Agency:** WISCONSIN DEPARTMENT OF VETERANS AFFAIRS

**Institution:** VETERANS CEMETERIES

**Time Period:** July 1, 2010 to June 30, 2012

**Executive Order 145, Article 1 Goals:** Reduce BTU/GSF from FY 2005

10% by beginning of FY 2008

20% by beginning of FY 2010

### **Anticipated Methods of Funding Energy Conservation & Renewable Energy Opportunities:**

Funding Source	EE or RE Measure	Cost of Project	Energy Savings BTU/YR	Energy Cost Reduction
WS15 SP Energy Conservation Fund				
Performance Contracting-Agency				
Agency Funds Including Federal Grants	No Projects			
Focus on Energy Incentives				
Utility Programs				
Equipment Lease or Lease Purchase				
Gifts & Grants				
Total				

State of Wisconsin  
Energy Cost Reduction Plan - Energy Conservation Opportunities (ECOs) 2010

Agency: Wisconsin Department of Veterans Affairs  
Institution: Cemeteries - SWVAC Union Grove,  
NWVAC Spioneer

BUILDING INFORMATION		HEATING, VENTILATING, AND AIR CONDITIONING														
		PLUMBING						BUILDING ENVELOPE								
Building No.	Building Name	WATER USE			WATER HEATING			WIND ENERGY			WIND TURBINE			WATER CONSERVATION		
Building No.	Building Name	Rewire/Rip/Replace Wind/Water/Door Weatherstripping	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal	Re-Seal Windows & Doors to Close & Fully Seal			
SWVAC																
102	Administration Building	C	C	C	C	C	C	C	C	C	C	C	C			
113A	Maintenance Building	C	C	C	C	C	C	C	C	C	C	C	C			
NWVAC																
1152	Administration Building	C	C	C	C	C	C	C	C	C	C	C	C			
1151	Maintenance Building	C	C	C	C	C	C	C	C	C	C	C	C			
		36	36	36	36	36	36	36	36	36	36	36	36			
		73	73	73	73	73	73	73	73	73	73	73	73			
BUILDING INFORMATION		LIGHTING AND ELECTRICAL														
Building No.	Building Name	Indoor Occupied Air Conditioning Stud/Down	Indoor Occupied Zone Stud/Down	Indoor Unoccupied Fan Stud/Down	Indoor Occupied Fan Stud/Down	Indoor Occupied Fan Stud/Down	Indoor Occupied Fan Stud/Down	Indoor Occupied Fan Stud/Down	Indoor Occupied Fan Stud/Down	Indoor Occupied Fan Stud/Down	Indoor Occupied Fan Stud/Down	Indoor Occupied Fan Stud/Down	Indoor Occupied Fan Stud/Down			
SWVAC																
102	Administration Building	C	C	C	C	C	C	C	C	C	C	C	C			
113A	Maintenance Building	C	C	C	C	C	C	C	C	C	C	C	C			
NWVAC																
1152	Administration Building	C	C	C	C	C	C	C	C	C	C	C	C			
1151	Maintenance Building	C	C	C	C	C	C	C	C	C	C	C	C			
		84	84	84	84	84	84	84	84	84	84	84	84			
		40	40	40	40	40	40	40	40	40	40	40	40			
BUILDING INFORMATION		BUILDING AUTOMATION SYSTEMS AND TEMPERATURE CONTROLS														
Building No.	Building Name	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment	Door Closer Adjustment			
SWVAC																
102	Administration Building	C	C	C	C	C	C	C	C	C	C	C	C			
113A	Maintenance Building	C	C	X	C	C	C	C	C	C	C	C	C			
NWVAC																
1152	Administration Building	C	P	C	C	C	C	C	C	C	C	C	C			
1151	Maintenance Building	C	C	X	C	C	C	C	C	C	C	C	C			
		3	3	3	3	3	3	3	3	3	3	3	3			
		13	13	13	13	13	13	13	13	13	13	13	13			
		18	18	18	18	18	18	18	18	18	18	18	18			

## ENERGY COST REDUCTION PLAN

**Agency: WISCONSIN DEPARTMENT OF VETERANS AFFAIRS**

**Institution: VETERANS ASSISTANCE CENTERS**

**Time Period: July 1, 2010 to June 30, 2012**

Executive Order 145, Article 1 Goals:      Reduce BTU/GSF from FY 2005

10% by beginning of FY 2008

20% by beginning of FY 2010

### Anticipated Methods of Funding Energy Conservation & Renewable Energy Opportunities:

Funding Source	EE or RE Measure	Cost of Project	Energy Savings BTU/YR	Energy Cost Reduction
WS15 SP Energy Conservation Fund				
Performance Contracting-Agency				
Agency Funds Including Federal Grants	No Projects			
Focus on Energy Incentives				
Utility Programs				
Equipment Lease or Lease Purchase				
Gifts & Grants				
Total				

State of Wisconsin  
Energy Cost Reduction Plan - Energy Conservation Opportunities (ECO's) 2010

Agency: Wisconsin Department of Veterans Affairs Institution: VAP-KING, VAP-NWC, VAP-SWC Veterans Assistance Centers		Building Information		Building Envelope		Plumbing		Heating, Ventilating, and Air Conditioning		Education Programs	
Building No.	Building Name	C	C	C	C	C	C	C	C	C	C
VAP KING	One Hall/Transitional Housing Building	C	C	C	C	C	C	C	C	C	C
VAP-NWC	Klein Hall/Transitional Housing Building	C	C	C	C	C	C	C	C	C	C
VAP-SWC	Cottage 167/Transitional Housing Building	C	C	C	C	C	C	C	C	C	C
119W	Cottage 1/MOT/BALED	C	C	C	C	C	C	C	C	C	C
27	3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3									
54	3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3									
63	3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3									
19	3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3									